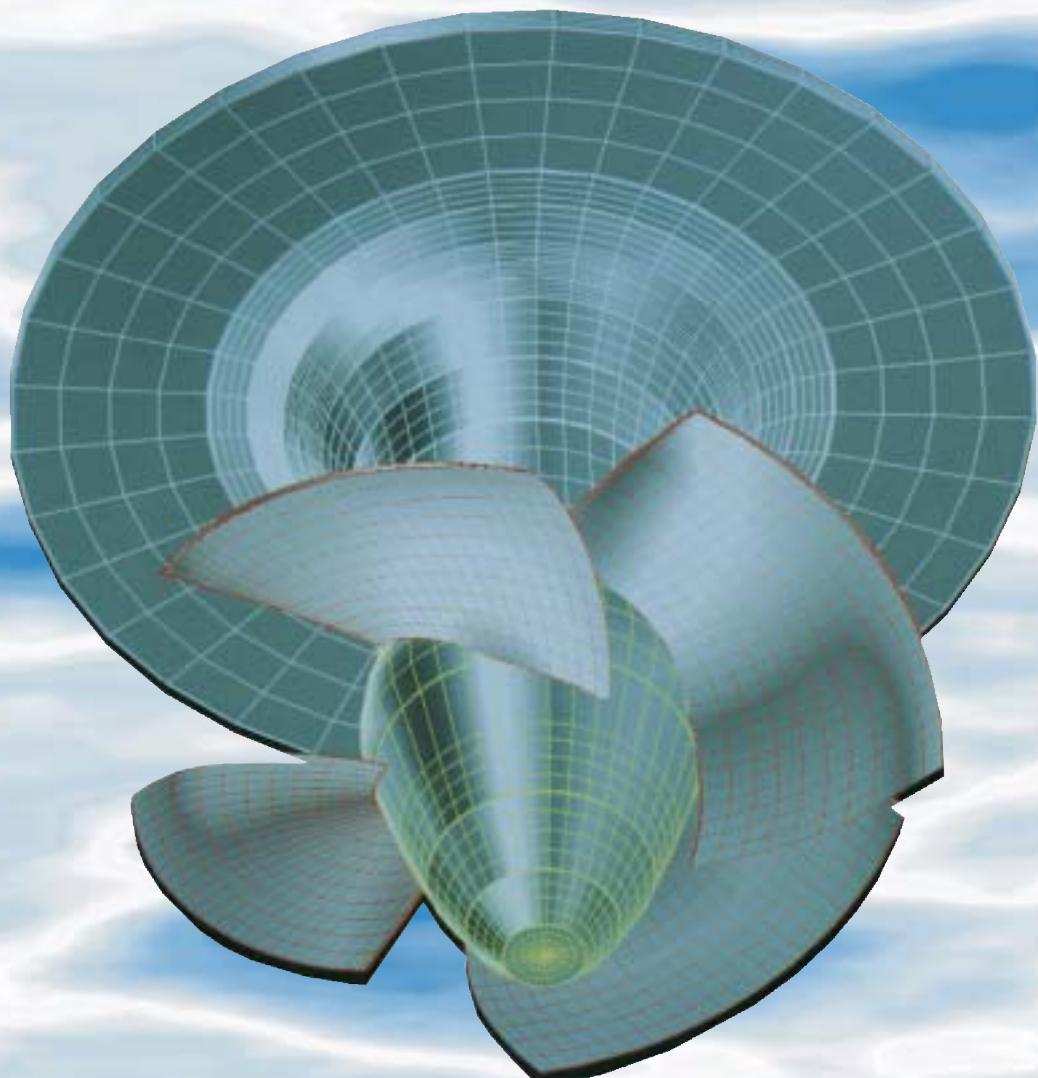


COMPACT KAPLAN



A Compact Turbine System for low head applications

Head up to 12 m

Output up to 5 MW

COMPACT KAPLAN

The range of Compact Kaplan turbines has been developed for discriminating users of small hydro.

The features of the Compact Kaplan turbines ensure a wide application according to specific needs.

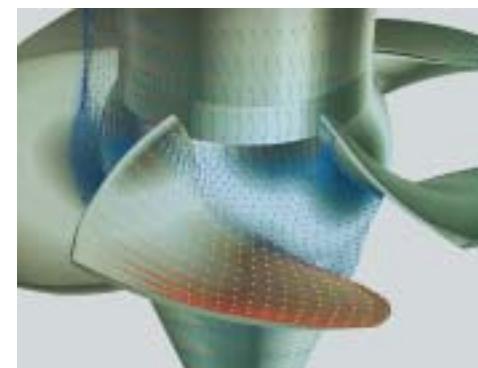
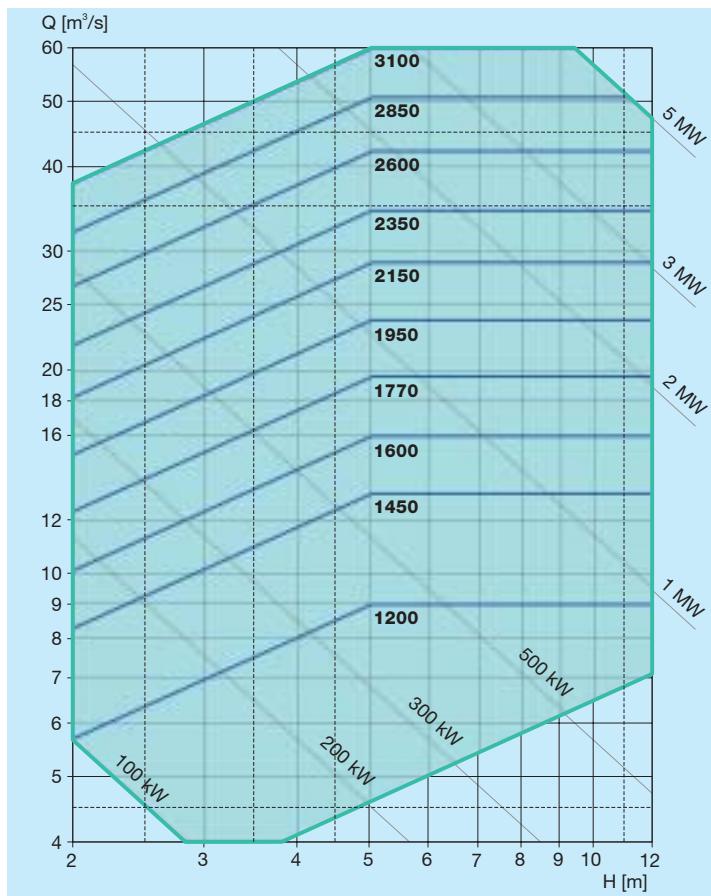
For optimal utilization of an available water resource, double-regulated Compact Kaplan Turbines have a flat efficiency curve resulting in a high output also at part-load. Under more constant flow conditions, the Semi-Kaplan turbine with fixed gate mechanism is a cost-effective alternative.

All guarantees concerning efficiency, output and resistance to cavitation are backed up by model tests in the VA TECH HYDRO laboratories.

Particularly in rehabilitation projects, Compact Kaplan offers an ideal alternative for replacing old machines.

Rehabilitation times are short since the unit is delivered as a complete aggregate which can be installed in a single embedding phase. The water-lubricated shaft bearing completely eliminates the risk of water pollution, thus combining advanced technology with stringent environmental protection.

Application range



Computer-generated drawing of a Compact Kaplan turbine runner

Technical Data

- Head H up to 12 m
- Flow Q up to 60 m³/s
- Output P up to 5 MW
- 10 Sizes
- D₁ from 1,450 up to 3,100 mm

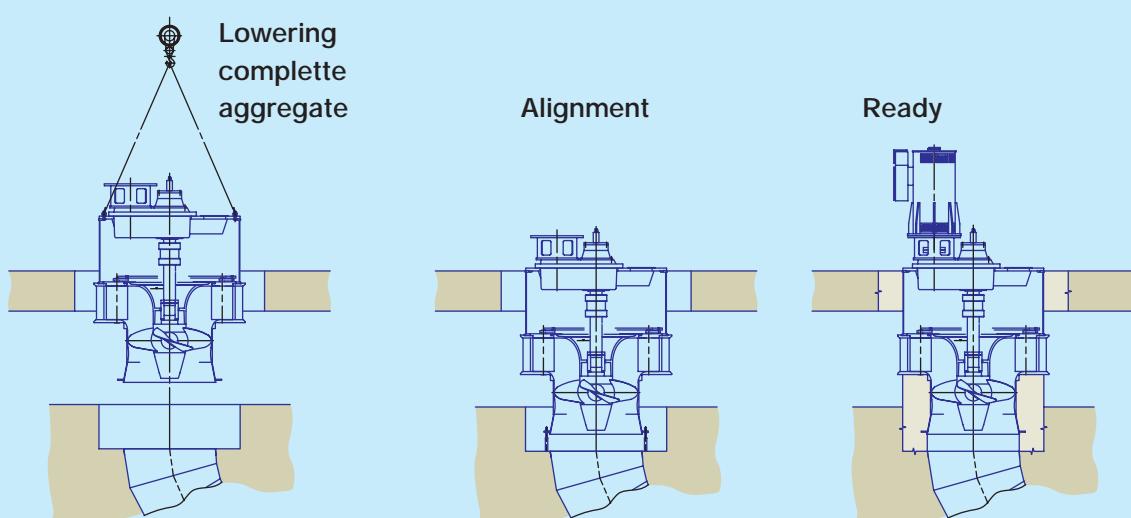
System features

- Aggregate concept:
Completely assembled turbine-generator unit with or without gearing system ready for immediate installation
- Double-regulated turbine for maximum efficiencies
- Option of a Semi-Kaplan version with fixed gate mechanism
- Water-lubricated shaft bearing for optimal environmental protection
- Simplified interface with powerhouse structure reduces overall costs.
- Single-source engineering minimizes interfaces.
Well proven turnkey solutions with optimally matched components for maximum customer benefit



Compact Kaplan Turbine

Erection procedure





VA TECH HYDRO worldwide

VA TECH HYDRO GmbH & Co
Penzinger Strasse 76
A-1141 Vienna, P.O. Box 5
Phone (+43/1) 89 100-0
Fax (+43/1) 89 46 046

VA TECH BOUVIER HYDRO S.A.
45/51 Boulevard Paul Langevin
BP No. 7
F-38601 Fontaine Cedex, France
Phone (+33/476) 85 95 23
Fax (+33/476) 26 16 20

VA TECH ESCHER WYSS GmbH
P.O. Box1380
D-88183 Ravensburg
Escher-Wyss-Strasse 25
D-88212 Ravensburg
Phone (+49/751) 83-00
Fax (+49/751) 83-2396



VA TECH ESCHER WYSS S.r.l.
Via Daniele Manin 16/18
Casella postale 274
I-36015 Schio (Vicenza)
Phone (+39/0445) 67 82 11
Fax (+39/0445) 67 82 18

VA TECH ESCHER WYSS S.L.
Paseo de la Castellana, 163
E-28046 Madrid
Phone (+34/91) 425 10 00
Fax (+34/91) 425 10 01

VA TECH ESCHER WYSS S.A. de C.V.
Av. Cd. Industrial No. 977
Col. Cd. Industrial
Mex-58200 Morelia, Mich.
Phone (+52/43) 23 15 30
Fax (+52/43) 23 15 38

VA TECH ESCHER WYSS Flovel Ltd.
Amar Nagar
P.O. 13/1 Mathura Road
IND-Faridabad/Haryana 121 003
Phone (+91/129) 527 43 19
Fax (+91/129) 527 43 20

VA TECH Energ Ltda
Rua Bernardo Gulmaraes
2063 Lourdes
BR-CEP 30.140-082, Belo Horizonte-MG
Phone (+55/31) 3335 11 09
Fax (+55/31) 3335 13 67

VA TECH VOEST MCE Corporation
812-A West Innes Street
USA-Salisbury, NC 28144
Phone (+1/704) 647 9276
Fax (+1/704) 647 9277

VA TECH BOUVIER CANADA, Inc.
102, Chemin du Tremblay
Boucherville PQ
CDN-Quebec J4B 6Z6
Phone (+1/450) 449 1228
Fax (+1/450) 449 1229

VA TECH HYDRO S.A.
Luis Rodrigues V.
4668 Las Condes, Casilla 57
RCH-Santiago de Chile
Phone (+56/2) 366 9022
Fax (+56/2) 366 9035

VA TECH HYDRO South Africa
The Ferns Office Park VA HOUSE
364 Pretoria Avenue
SA-Johannesburg 2194
(Cramerview 2060)
Phone (+27/11) 886 0900
Fax (+27/11) 886 0941

VA TECH ESCHER WYSS Peru, S.A.
Avenida Aramburú 166, Dep. 2A
Miraflores,
PE-Lima 18
Phone (+51/1) 441 45 41
Fax (+51/1) 222 26 59

VA TECH ESCHER WYSS
Carrera 70 no 33-81
CO-Bogotá
Phone (+57/1) 323 69 00 ext. 235
Fax (+57/1) 338 03 71 or 318 83 70

VA TECH ESCHER WYSS AG
Stockenstrasse 27
CH-9249 Algetshausen
Phone (+41/71) 950 01 66
Fax (+41/71) 951 66 24